

FILEID**GETTIM

J 14

GGGGGGGG GGGGGGGG EEEEEEEEEE TTTTTTTTTT TTTTTTTTTT IIIIIII MM MM
GG GG EE EE TT TT TT TT IIIII MM MM MBBBBB MBBBBB
GG GG EE EE TT TT TT TT IIIII MM MM MBBBBB MBBBBB
GG GG EE EE TT TT TT TT IIIII MM MM MBBBBB MBBBBB
GG GG EEEEEEEE EEEEEEEE TT TT TT TT IIIII MM MM MBBBBB MBBBBB
GG GG GGGGGG EE EE TT TT TT TT IIIII MM MM MBBBBB MBBBBB
GG GG GGGGGG EE EE TT TT TT TT IIIII MM MM MBBBBB MBBBBB
GG GG GG EE EE TT TT TT TT IIIII MM MM MBBBBB MBBBBB
GGGGGG GGGGGG EEEEEEEEEE EEEEEEEEEE TT TT TT IIIII MM MM MBBBBB MBBBBB
GGGGGG GGGGGG EEEEEEEEEE EEEEEEEEEE TT TT TT IIIII MM MM MBBBBB MBBBBB

LL IIIII SSSSSSSS
LL IIIII SS SS SSSSSS
LLLLLLLLLL IIIII SSSSSSSS
LLLLLLLLLL IIIII SSSSSSSS

GTL
VO

```
1 0001 0 MODULE GETTIM (
2 0002 0           LANGUAGE,(BLISS32),
3 0003 0           IDENT = 'V04-000'
4 0004 0           ) =
5 0005 1 BEGIN
6 0006 1
7 0007 1 !
8 0008 1 ****
9 0009 1 !*
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27 0027 1 !*
28 0028 1 !*
29 0029 1 ****
30 0030 1
31 0031 1 ++
32 0032 1
33 0033 1 FACILITY: F11ACP Structure Level 1
34 0034 1
35 0035 1 ABSTRACT:
36 0036 1
37 0037 1 This routine builds a date/time string in the format for file headers
38 0038 1 in the indicated buffer.
39 0039 1
40 0040 1 ENVIRONMENT:
41 0041 1
42 0042 1 STARLET operating system, including privileged system services
43 0043 1 and internal exec routines.
44 0044 1
45 0045 1 --
46 0046 1
47 0047 1
48 0048 1 AUTHOR: Andrew C. Goldstein, CREATION DATE: 2-May-1977 16:07
49 0049 1
50 0050 1 MODIFIED BY:
51 0051 1
52 0052 1 V03-001 CDS0001 Christian D. Saether 4-May-1983
53 0053 1 Make descriptor PIC.
54 0054 1
55 0055 1 A0100 ACG00001 Andrew C. Goldstein, 10-Oct-1978 20:03
56 0056 1 Previous revision history moved to F11A.REV
57 0057 1 ...
```

GETTIM
V04-000

L 14
16-Sep-1984 00:35:41
14-Sep-1984 12:30:30 VAX-11 BLiss-32 v4.0-742
DISK\$VMSMASTER:[F1IX.SRC]GETTIM.B32;1 Page 2 IN

: 58 0058 1
: 59 0059 1
: 60 0060 1 LIBRARY 'SYSS\$LIBRARY:LIB:L32';
: 61 0061 1 REQUIRE 'SRC\$:FCPDEF.B32';

```
63 1052 1 GLOBAL ROUTINE GET_TIME (BUFFER, TIME) : NOVALUE =
64 1053 1 !++
65 1054 1 !+
66 1055 1 !+
67 1056 1 !+
68 1057 1 !+
69 1058 1 !+
70 1059 1 !+
71 1060 1 !+
72 1061 1 !+
73 1062 1 !+
74 1063 1 !+
75 1064 1 !+
76 1065 1 !+
77 1066 1 !+
78 1067 1 !+
79 1068 1 !+
80 1069 1 !+
81 1070 1 !+
82 1071 1 !+
83 1072 1 !+
84 1073 1 !+
85 1074 1 !+
86 1075 1 !+
87 1076 1 !+
88 1077 1 !+
89 1078 1 !+
90 1079 1 !+
91 1080 1 !+
92 1081 1 !+
93 1082 1 !+
94 1083 1 !+
95 1084 1 !-
96 1085 1 !-
97 1086 2 BEGIN
98 1087 2 !+
99 1088 2 LITERAL ! entries in the numeric date/time buffer
100 1089 2 YEAR = 0.
101 1090 2 MONTH = 1.
102 1091 2 DAY = 2.
103 1092 2 HOUR = 3.
104 1093 2 MINUTE = 4.
105 1094 2 SECOND = 5;
106 1095 2 !-
107 1096 2 MAP
108 1097 2 BUFFER : REF VECTOR [,BYTE]; ! date/time buffer arg
109 1098 2 !-
110 1099 2 LOCAL
111 1100 2 TIMEADDR, ! address of 64 bit date/time
112 1101 2 DUMMY, ! dummy to receive string length
113 1102 2 TIMBUF : VECTOR [7, WORD], ! buffer to receive numeric format time
114 1103 2 FORMAT : VECTOR [2], ! FAO format string descriptor
115 1104 2 BUF_DESCRIPTOR : VECTOR [2]; ! descriptor to pass buffer to FAO
116 1105 2 !-
117 1106 2 BIND
118 1107 2 MONTH_TABLE = UPLIT BYTE ! month name table
119 1108 2 !-
```

```

120      1109 2          ('JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC ')
121      1110 2          : VECTOR;
122      1111 2
123      1112 2          EXTERNAL ROUTINE
124      1113 2          SYSSNUMTIM : ADDRESSING_MODE (ABSOLUTE),
125      1114 2          ! system time in numeric format
126      1115 2          SYSSFAO   : ADDRESSING_MODE (ABSOLUTE);
127      1116 2          ! formatted ASCII output
128      1117 2
129      1118 2
130      1119 2          ! Execution of this routine simply involves getting the current date and time
131      1120 2          ! in numeric format from the system, and then calling FAO to build the ASCII
132      1121 2          ! date/time string in the buffer. The string is of the form 'DDMMYYHHMMSS'.
133      1122 2
134      1123 2
135      1124 2          BUF_DESCRIPTOR[0] = FI1$S_CREDATE + FI1$S_CRETIME;
136      1125 2          BUF_DESCRIPTOR[1] = .BUFFER;
137      1126 2
138      1127 2          TIMEADDR = 0;
139      1128 2          IF ACTUALCOUNT GEQ 2 THEN TIMEADDR = .TIME;
140      1129 2          SYSSNUMTIM (TIMBUF, .TIMEADDR);
141      1130 2
142      1131 2          PIC_DESC ('!2ZW!AD!4(2ZW)', FORMAT);
143      1132 2
144      1133 2          SYSSFAO (FORMAT, DUMMY, BUF_DESCRIPTOR,
145      1134 2          .TIMBUF[DAY],
146      1135 2          , MONTH_TABLE[.TIMBUF[MONTH]-1],
147      1136 2          .TIMBUF[YEAR] MOD 100,
148      1137 2          .TIMBUF[HOUR],
149      1138 2          .TIMBUF[MINUTE],
150      1139 2          .TIMBUF[SECOND]
151      1140 2
152      1141 2
153      1142 1 END:           ! end of routine GET_TIME

```

```

.TITLE GETTIM
.IDENT '\V04-000'
.PSECT $CODE$,NOWRT,2
52 50 41 20 20 52 41 40 20 42 45 46 20 4E 41 4A 00000 P.AAA: .ASCII \JAN FEB MAR APR MAY JUN JUL AUG SEP OCT \
55 41 20 4C 55 4A 20 4E 55 4A 20 59 41 4D 20 0000F
20 54 43 4F 20 50 45 53 20 47 0001E
00 29 57 5A 32 28 34 21 44 41 21 57 5A 32 21 00030 P.AAB: .ASCII \NOV DEC \
00 0003F

```

MONTH_TABLE= P.AAA
.EXTRN SYSSNUMTIM, SYSSFAO

| | | | | |
|----|----|-------------|-------------------------------|--------|
| 04 | 5E | 0000 00000 | .ENTRY GET_TIME, Save nothing | : 1052 |
| 08 | AE | 24 C2 00002 | SUBL2 #36, SP | : 1124 |
| | | 0D D0 00005 | MOVL #13, BUF_DESCRIPTOR | : 1125 |
| | | AC D0 00009 | MOVL BUFFER, BUF_DESCRIPTOR+4 | : 1127 |
| | | 50 D4 0000E | CLRL TIMEADDR | : 1128 |
| | | 6C 91 00010 | (MPB) (AP), #2 | |

| | | | | | | | | | |
|--|--|-----------|----|-----------|----------|-------|--------|--------------------------|------|
| | | 50 | 08 | 04 | 1F | 00013 | BLSSU | 1\$ | |
| | | | | AC | DD | 00015 | MOVL | TIME, TIMEADDR | |
| | | 00000000G | 9F | 18 | AE | 9F | PUSHL | TIMEADDR | 1129 |
| | | OC | AE | 02 | FB | 0001E | PUSHAB | TIMBUF | |
| | | 10 | AE | 0E | DD | 00025 | CALLS | #2, @#SYSSNUMTIM | |
| | | | | C4 | AF | 9E | MOVL | #14, FORMAT | 1131 |
| | | | | 7E | 1E | AE | MOVAB | P.A,B, FORMAT+4 | |
| | | | | 7E | 20 | AE | MOVZWL | TIMBUF+10, -(SP) | 1139 |
| | | | | 7E | 22 | AE | MOVZWL | TIMBUF+8, -(SP) | 1138 |
| | | | | 50 | 20 | AE | MOVZWL | TIMBUF+6, -(SP) | 1137 |
| | | 7E | 00 | 50 | 01 | 7A | MOVZWL | TIMBUF, R0 | 1136 |
| | | 6E | 7E | 8E | 00000064 | 8F | EDIV | #1, R0, #0, -(SP) | |
| | | | | 50 | 26 | 78 | MOVZWL | #100, (SP)+, -(SP), (SP) | |
| | | | | | FF67 | CF40 | PUSHAL | TIMBUF+2, R0 | 1135 |
| | | | | | | 03 | DD | MONTH_TABLE-4[R0] | |
| | | | | 7E | 30 | AE | MOVZWL | #3 | |
| | | | | | 20 | 3C | 00057 | TIMBUF+4, -(SP) | |
| | | | | | 20 | AE | PUSHAB | BUF DESCRIPT | 1133 |
| | | | | | 20 | 9F | PUSHAB | DUMMY | |
| | | | | | 30 | AE | PUSHAB | FORMAT | |
| | | | | 00000000G | 9F | 0A | CALLS | #10, @#SYSSFAO | 1135 |
| | | | | | | 04 | RET | | 1142 |

: Routine Size: 108 bytes, Routine Base: \$CODE\$ + 0040

```
: 154      1143 1
: 155      1144 1 END
: 156      1145 0 ELUDOM
```

PSECT SUMMARY

| Name | Bytes | Attributes |
|----------|-------|-----------------------------------------------------------|
| \$CODE\$ | 172 | NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2) |

Library Statistics

| File | ----- | Symbols | ----- | Pages | Processing |
|-----------------------------------|-------|---------|---------|--------|------------|
| | Total | Loaded | Percent | Mapped | Time |
| \$_\$255\$DUA28:[SYSLIB]LIB.L32;1 | 18619 | 19 | 0 | 1000 | 00:01.9 |

GETTIM
V04-000

C 15
16-Sep-1984 00:35:41
14-Sep-1984 12:30:30

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[F11X.SRC]GETTIM.B32;1 Page 6
(2)

IN
VO

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS:GETTIM/OBJ=OBJ\$:GETTIM MSRC\$:GETTIM/UPDATE=(ENH\$:GETTIM)

: Size: 108 code + 64 data bytes
: Run Time: 00:08.8
: Elapsed Time: 00:19.1
: Lines/CPU Min: 7789
: Lexemes/CPU-Min: 27802
: Memory Used: 112 pages
: Compilation Complete

0170 AH-BT13A-SE
VAX/VMS V4.0

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